Defense Information Infrastructure (DII)

Common Operating Environment (COE)

Software Product Specification (SPS) for
<name and version of software/segment>

<Document Version (if applicable)>

<Date>

Prepared for:

Defense Information Systems Agency

<Document Number>

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Notes on Using the Template

1. Refer to Section 3.1 and 3.2 of the *DII COE Developer Documentation Requirements* for format requirements and guidelines for using the templates.
2. This template has been formatted for a small document (12 pages or less). Section headings are left adjusted (refer to Section 3.1.6 of the *DII COE Developer Documentation Requirements*) and are not required to begin on a new odd page.

1. Scope

This section shall be divided into the following paragraphs.

1.1 Identification

This paragraph shall contain a full identification of the system and software. It must provide the identifying number(s), title(s), abbreviation(s), version number(s), the release number(s), and the associated COE version number(s), as applicable. Identification must include the operating system platform(s) to which this document applies.

1.2 System Overview

This paragraph shall provide a brief description of the general nature, purpose, and functionality provided by the software.

2. Referenced Documents

Provide a list of documents referenced in this document. List each document by document number, title, version/revision, and date. Identify the source for all documents not available through the Government.

3. Requirements

Specify the contents of the delivered software. Describe all materials that comprise the subject software delivery by enclosure or reference to the electronic media.

3.1 Executable Software

Identify the executable software provided in the referenced or enclosed electronic media. Specify all executable files and any batch files, command files, data files, or other software files needed to install and operate the subject software on the target computer platform(s).

3.2 Source Files

Identify the source files for the software provided in the referenced or enclosed electronic media. Specify all source files including any batch files, command files, data files, or other software files needed to regenerate the executable software.

3.3 Packaging Requirements

Specify the requirements, if any, for packaging and making copies of the subject software.

4. Qualification Provisions

Identify the method(s) to be used to demonstrate that a reproduction of the subject software is a valid copy.

5. Software Support Information

5.1 As-Built Software Design

Provide or reference the appendix or other document(s) that contain the as-built software design. The information shall be the same as that required in a Software Design Description (SDD), Interface Design Document (IDD), and Database Design Document (DBDD), as applicable, and described in MIL-STD 498. Information provided in the source code listings may be referenced.

5.2 Compilation/Build Procedures

Describe or reference an appendix that describes the procedures to be used to create the executable files from the source files and to prepare the executable files for loading onto firmware or other distribution media. Specify the compiler(s)/assembler(s) to be used, including version numbers; other hardware and software needed, including version numbers; any settings, options, or conventions to be used; and procedures for compiling/assembling, linking, and building the subject software and associated system/subsystem, including variations for different sites, configurations, version, etc. Reference other documents that contain the required information, as needed.

5.3 Modification Procedures

Describe procedures that must be followed to modify the subject software. Include or reference information on the following, as applicable:

1. Support facilities, equipment, software, and procedures for their use
2. Database/data files used by the subject software and procedures for using and modifying them
3. Design, coding, and other conventions to be followed
4. Compilation/build procedures if different from those above
5. Integration and testing procedures to be followed

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5.4 Computer Hardware Resource Allocation

Describe the subject software's measured utilization of computer resources (such as processor capacity, memory capacity, communications/network equipment capacity, etc.). Include all computer hardware resources utilized by the software and system-level resources affecting the software, or in the software development plan. For each computer hardware resource provide or reference the following information, as applicable:

1. Traceability to the software requirements or system-level resource allocations being satisfied (here or in Section 6)
2. Assumptions and conditions on which the utilization data are based (such as typical or worst-case)
3. Any special considerations affecting the utilization (such as impacts of OS or implementation)
4. Units of measure used (such as percentages, cycles per second, bytes)
5. Software level(s) at which the estimates or measures have been made (such as software unit or executable program)

6. Requirements Traceability

Provide traceability from each software source file to the software unit it implements. Provide traceability from each software unit to the source files that implement it. Provide traceability from each software unit to the system or software requirements it addresses. Provide traceability from each system or software requirement to the software unit that addresses it.

7. Notes

Provide general information to assist in the understanding of this document. This section may include a list of acronyms and abbreviations, and a list of terms and definitions.

8. Documentation Improvement and Feedback

Comments and other feedback on this document should be directed to the DII COE Hotline:

Phone: 703-735-8681
Fax.:   703-735-3080
Email: HotlineC@ncr.disa.mil

A. Appendices

Appendices may be used to provide additional information published separately for convenience in document maintenance. The appendices shall be referenced in the main body of the document, where applicable.